AIWA®

S/M Code No. 87-047
DATE OF ISSUE 8/1987-I

SERVICE MANUAL

MODEL No. HS-T06MK II, T330

- STEREO RADIO CASSETTE PLAYER
- TYPE. Y
- BASIC MECHANISM : TN-52

MODEL No. HS-T36, T360

- STEREO RADIO CASSETTE PLAYER
- TYPE. Y
- BASIC MECHANISM : TN-52

SPECIFICATIONS

Frequency range: FM: 87.5 – 108 MHz
AM: 530 – 1,605 kHz
Track configulation: 4-track, 2-channel stereo
Frequency range: 40 to 12,500 Hz (NORMAL tape)
40 to 16,000 Hz (METAL tape)
Maximum output: 15 mW + 15 mW (EIAJ/32Ω)
Power source: Battery DC 3V R6P
(SUM-3, AA, LR-6) × 2
Domestic AC power
(using optional AC adapter)

Battery life:
- Using manganese batteries (R6P SUM-3, AA)
Approx. 3.5 hours (EIAJ, 1 mW output, playback mode)
- Using alkaline batteries (LR-6, AA)
Approx. 7 hours (EIAJ, 1 mW output, playback mode)

Maximum dimensions: 91.5(H) × 118.4(W) × 37.9(D) mm
Weight: 325 g (including batteries)

- Design and specifications are subject to change without notice.
- Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.
- Dolby and the DD symbol are trademarks of Dolby Laboratories Licensing Corporation.

AIWA CO., Ltd. Tokyo Japan

Printed in Japan

As to the disassembl instructions,refer to the service manual of HS-G35MKII and HS-G36.

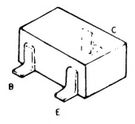
■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q'TY
	1	★84-447-904-019		INSTRUCTION BOOKLET (T06MKII,T36Y,Y1)	*	1
	2	★84-447-905-019		INSTRUCTION BOOKLET (T330,T360YU)	*	1
	3	★84-447-908-019		INSTRUCTION BOOKLET (T06MKII,T36YZ)	*	1
	4	★87-048-124-019		HP-07 (Y1)		
	5	★87-048-127-019		HP-M12 (EXCEPT Y1)		
	6	★84-447-019-019		CLIP,BELT	*	1

ELECTRICAL MAIN PARTS LIST

Note **When placing an order for service parts, always enter the parts code number up to the last numeral on the service parts ordering sheet.**

REF.NO.	PART NO.	ORDER	DESCRIPTION
=== IC ===			
	87-020-459-019		IC,BA1102F
	87-020-460-019		IC,CX20111
	87-020-447-019		IC,TA7373F
	87-020-234-019		IC,TA7688F(S)
	87-020-235-019		IC,TA7709F(S)
=== TRANSISTOR ===			
	89-502-113-019		FET,2SK211 O
	87-026-213-019		TRANSISTOR,DTC114YK
	89-112-134-019		TRANSISTOR,2SA1213Y
	89-327-124-019		TRANSISTOR,2SC2712Y
=== MAIN CIRCUIT BOARD SECTION ===			
PCB-A	84-400-601-019		MAIN CIRCUIT BOARD(T06MKII/T330)
PCB-A	84-447-601-019		MAIN CIRCUIT BOARD(T36/T360)
BPF1	*87-030-136-010		FILTER BPMB 8L
C1	*87-010-147-019		CAP,CHIP S 3P
C2	*87-010-315-019		CAP,CHIP S 27P CH
C3	*87-010-149-019		CAP,CHIP S 5P
C4	*87-010-091-019		CAP,CHIP 22P CH
C5	*87-010-315-019		CAP,CHIP S 27P CH
C6	*87-010-197-019		CAP,CHIP 0.01DM
C7	*87-010-197-019		CAP,CHIP 0.01DM
C8	*87-010-498-019		CAP,ELECT GAS 10-16
C9	*87-010-197-019		CAP,CHIP 0.01DM
C10	*87-010-194-019		CAP,CHIP 0.047
C11	*87-010-193-019		CAP,CHIP 0.033
C12	*87-010-502-019		CAP,ELECT GAS 100-4
C13	*87-010-498-019		CAP,ELECT GAS 10-16
C14	*87-010-495-019		CAP,ELECT GAS 2.2-50
C15	*87-010-495-019		CAP,ELECT GAS 2.2-50
C16	*87-010-197-019		CAP,CHIP 0.01DM
C17	*87-010-197-019		CAP,CHIP 0.01DM
C18	*87-010-495-019		CAP,ELECT GAS 2.2-50
C19	*87-010-495-019		CAP,ELECT GAS 2.2-50
C20	*87-010-495-019		CAP,ELECT GAS 2.2-50
C21	*87-010-189-019		CAP,CHIP S 8200P
C22	*87-010-189-019		CAP,CHIP S 8200P
C23	*87-010-194-019		CAP,CHIP 0.047
C24	*87-010-194-019		CAP,CHIP 0.047
C25	*87-010-196-019		CAP,CHIP 0.1
C26	*87-014-047-019		CAP, PP 390P
C27	*87-015-768-019		CAP,CHIP 220P
C28	*87-010-321-019		CAP,CHIP 82P CH
C101	*87-010-180-019		CAP,CHIP 1500P
C102	*87-010-180-019		CAP,CHIP 1500P
C103	*87-010-220-019		CAP,CHIP 0.018
C104	*87-010-220-019		CAP,CHIP 0.018
C105	*87-010-501-019		CAP,ELECT GAS 47-4
C106	*87-010-501-019		CAP,ELECT GAS 47-4
C107	*87-010-220-019		CAP,CHIP 0.018
C108	*87-010-220-019		CAP,CHIP 0.018
C109	*87-010-495-019		CAP,ELECT GAS 2.2-50
C110	*87-010-495-019		CAP,ELECT GAS 2.2-50
C111	*87-010-178-019		CAP,CHIP 1000P
C112	*87-010-178-019		CAP,CHIP 1000P
C113	*87-010-178-019		CAP,CHIP 1000P
C114	*87-010-178-019		CAP,CHIP 1000P
C115	*87-010-193-019		CAP,CHIP 0.033
C116	*87-010-193-019		CAP,CHIP 0.033
C117	*87-010-186-019		CAP,CHIP 4700P
C118	*87-010-186-019		CAP,CHIP 4700P
C119	*87-010-495-019		CAP,ELECT GAS 2.2-50
C120	*87-010-495-019		CAP,ELECT GAS 2.2-50
C121	*87-010-197-019		CAP,CHIP 0.01DM
C122	*87-010-197-019		CAP,CHIP 0.01DM
C123	*87-010-193-019		CAP,CHIP 0.033
C124	*87-010-193-019		CAP,CHIP 0.033
C125	*87-010-196-019		CAP,CHIP 0.1
C126	*87-010-196-019		CAP,CHIP 0.1
C127	*87-010-495-019		CAP,ELECT GAS 2.2-50
C128	*87-010-495-019		CAP,ELECT GAS 2.2-50
C129	*87-010-178-019		CAP,CHIP 1000P
C130	*87-010-178-019		CAP,CHIP 1000P
C131	*87-010-503-019		CAP,ELECT GAS 220-4
C132	*87-010-503-019		CAP,ELECT GAS 220-4
C133	*87-010-109-019		CAP,CHIP 0.22
C134	*87-010-109-019		CAP,CHIP 0.22
C135	*87-010-501-019		CAP,ELECT GAS 47-4
C136	*87-010-501-019		CAP,ELECT GAS 47-4
C137	*87-010-503-019		CAP,ELECT GAS 220-4
C138	*87-010-501-019		CAP,ELECT GAS 47-4
C139	*87-010-498-019		CAP,ELECT GAS 10-16
C140	*87-010-501-019		CAP,ELECT GAS 47-4
C141	*87-010-503-019		CAP,ELECT GAS 220-4
C142	*87-010-495-019		CAP,ELECT GAS 2.2-50
C143	*87-010-503-019		CAP,ELECT GAS 220-4
C144	*87-010-196-019		CAP,CHIP 0.1
C145	*87-010-321-019		CAP,CHIP 82P CH
C147	*87-015-738-019		CAP,TANTALUM 33-4
CF1	*84-400-602-019		FM IF KIT DISCRI(SFT 10.7MS2Z)
CF3	+++		FM IF KIT DISCRI(CDA 10.7MG1Z)
CF2	*87-008-284-019		FILTER PFB 468J
D1	87-020-339-019		DIODE,CHIP 1SS226
J1	87-049-549-019		JACK DC(DC 3V)
J2	87-049-585-019		JACK 3.5ST 2.5MM(PHONES)
L1	*87-005-264-019		COIL,CHIP 22UH
L2	*87-005-264-019		COIL,CHIP 22UH
L3	*87-003-134-019		COIL 1.5UH (S)
L4	*87-003-159-019		COIL 47UH
L5	*87-007-180-019		COIL LOADING 4T
L6	*87-006-089-019		COIL BAR ANT AM
L7	*87-007-130-019		COIL OSC AM
L8	*87-006-094-019		COIL OSC FM
L9	*87-006-090-019		COIL ANT FM
L10	*87-008-285-019		IFT AM
LED1	*87-027-636-019		LED TLR-226(OPE/BATT)
R139	*87-022-040-010		PTR XJ 1/8W 0.82/4300
S2	87-031-816-019		SLIDE SW (ST/MONO,METAL/NORMAL)
S3	87-031-816-019		SLIDE SW (DOLBY NR ON/OFF,FM/AM)
S5	87-031-986-010		SLIDE SW (POWER OFF/TAPE,RADIO)
SFR1	*87-021-883-010		SFR 500B
SFR2	*87-021-883-010		SFR 500B
SFR3	*87-021-677-010		SFR 10KB
SFR4	*87-021-932-010		SFR 10KB
TC1	*87-011-174-019		PVC
TC2	+++		PVC
TC3	+++		PVC
TC4	+++		PVC
VC1	+++		PVC
VC2	+++		PVC
VC3	+++		PVC
VC4	+++		PVC
TH1	*87-026-222-010		THERMISTOR HT-50K
VR1	81-198-615-019		VOLUME 10KA(VOL)
=== SWITCH CIRCUIT BOARD SECTION ===			
PH	S6-205-070-500		HEAD ASSY(W/PCB-B)
S1	S6-403-020-400		SLIDE SW(DIRECTION)
=== G.EQ CIRCUIT BOARD SECTION === (HS-T36/T360)			
	84-447-602-019		G-EQ ASSY(W/PCB-C)
	84-447-603-019		RIBBON WIRE 6P
=== MISCELLANEOUS ===			
M1	S6-005-070-120		MOTOR
S4	S6-417-010-900		LEAF SW(PLAY)



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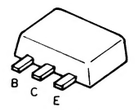

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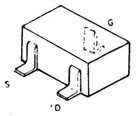

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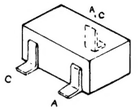

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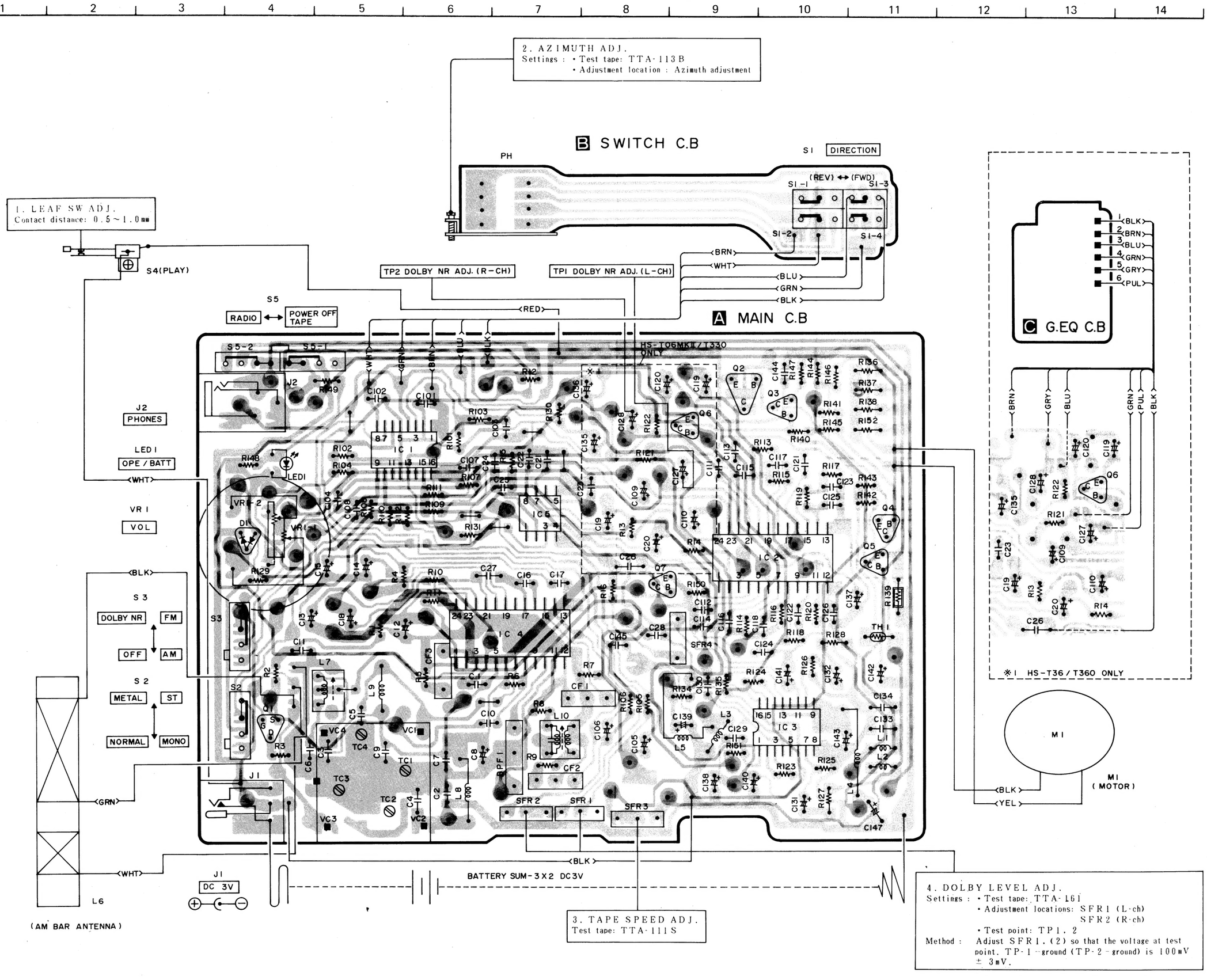
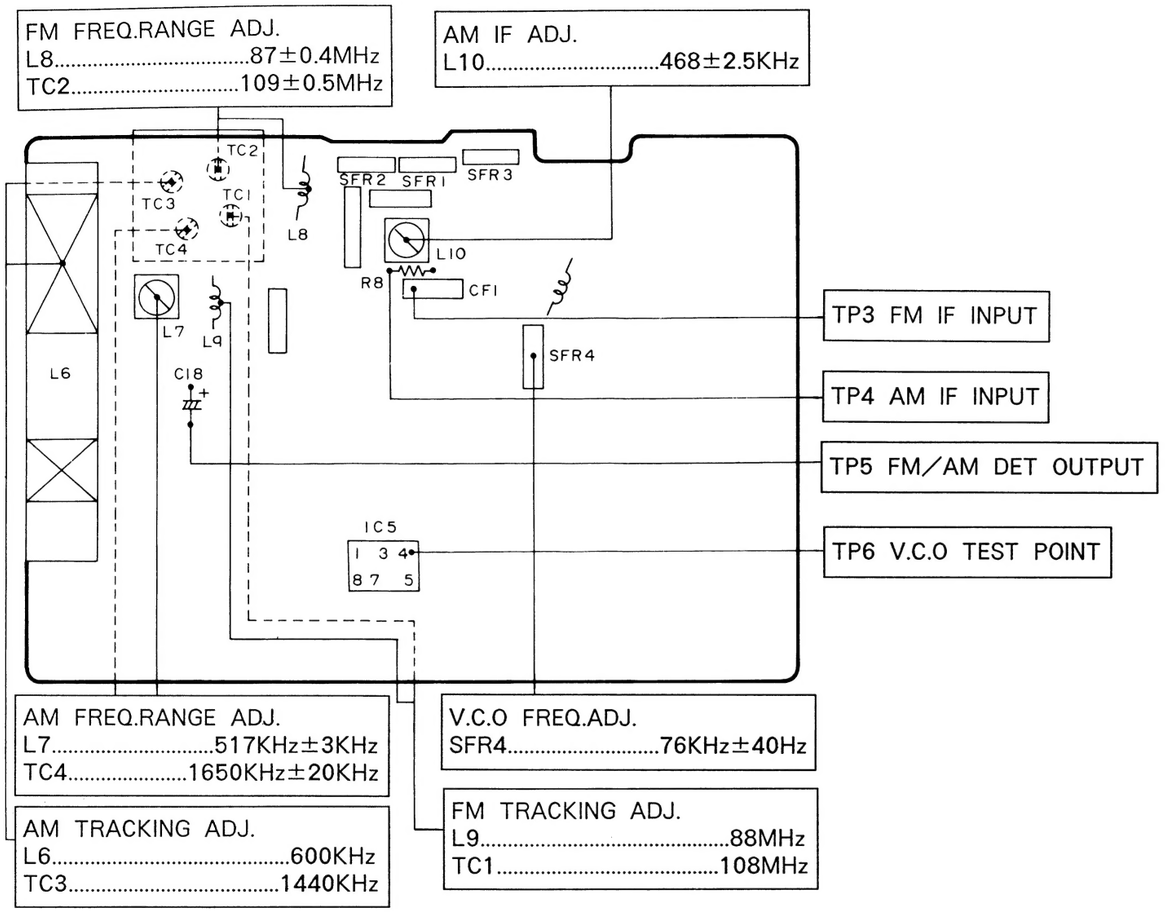

2. AZIMUTH ADJ.
Settings : • Test tape: TTA-113B
• Adjustment location : Azimuth adjustment
B SWITCH C.B
PH
S1 DIRECTION
(REV) ↔ (FWD)
S1-1
S1-3
S1-2
S1-4
1. LEAF SW ADJ.
Contact distance: 0.5~1.0mm
S4(PLAY)
TP2 DOLBY NR ADJ. (R-CH)
TP1 DOLBY NR ADJ. (L-CH)
S5
RADIO ↔ POWER OFF TAPE
A MAIN C.B
HS-T06MK2/T330 ONLY
J2
PHONES
LED1
OPE / BATT
VR1
VOL
S3
DOLBY NR FM
OFF AM
S2
METAL ST
NORMAL MONO
J1
DC 3V
L6
(AM BAR ANTENNA)
BATTERY SUM-3X2 DC3V
3. TAPE SPEED ADJ.
Test tape: TTA-111S
C G.EQ C.B
※1 HS-T36/T360 ONLY
M1
(MOTOR)
4. DOLBY LEVEL ADJ.
Settings : • Test tape: TTA-161
• Adjustment locations: SFR1 (L-ch)
SFR2 (R-ch)
• Test point: TP1, 2
Method : Adjust SFR1, (2) so that the voltage at test point, TP-1 - ground (TP-2 - ground) is 100mV ± 3mV.

ADJUSTMENT



PRACTICAL SERVICE FIGURE

〈RADIO SECTION〉

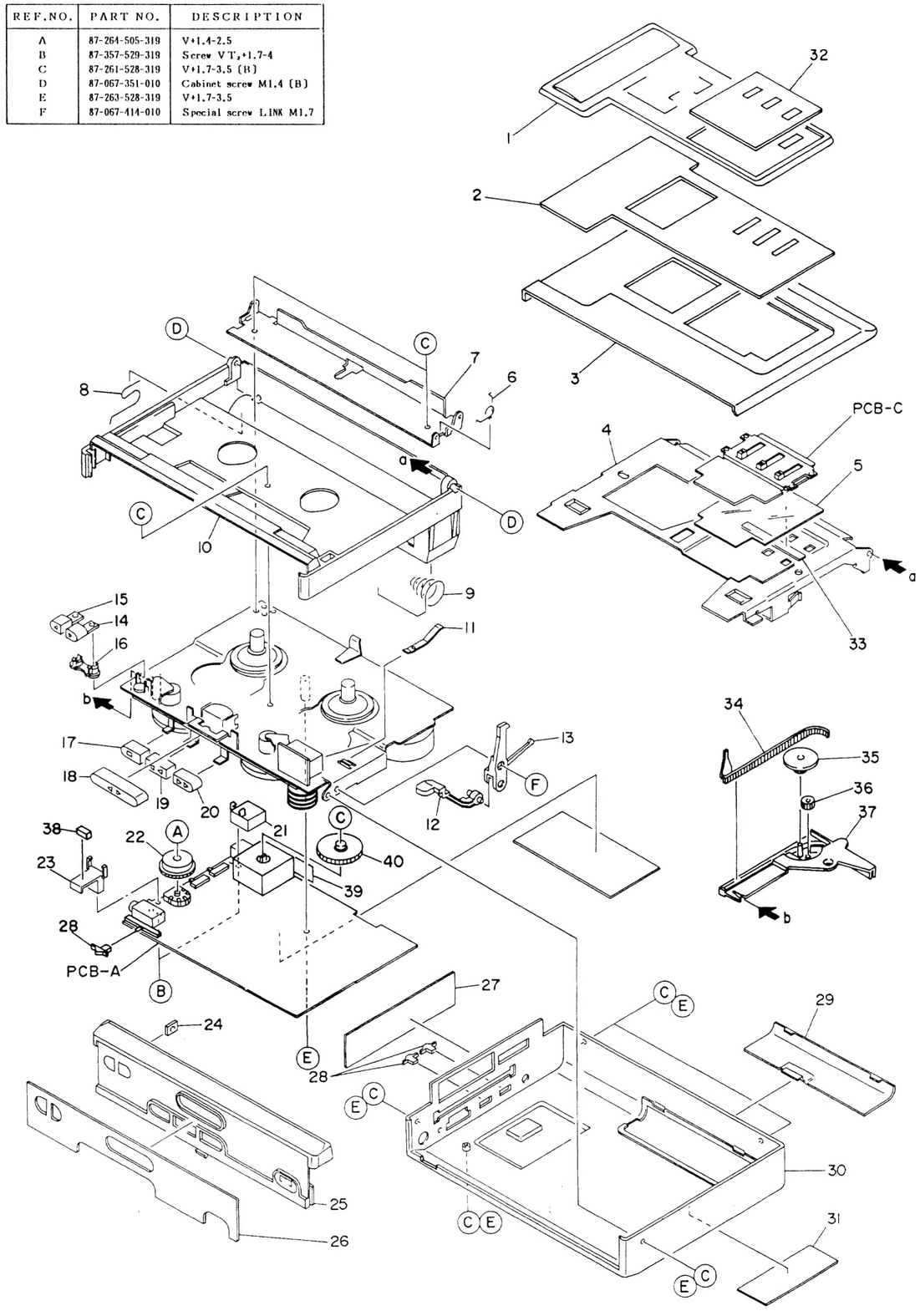
Sensitivity:	
(IHF, THD 3%)	FM 15±5dB (100MHz)
(S/N 10dB)	AM 48±3dB (1000KHz)
Intermediate frequency:	FM 10.7± 0.1MHz
	AM 468±3.5KHz

〈TAPE SECTION〉

Wow & flutter:	Less than 0.47% (JIS DIN RMS)
Play torque:	25~55g-cm
F.F/REW torque:	50~120g-cm
Back tension:	1.5~4.5g-cm
Signal to noise ratio:	More than 44dB (DC,AC)
Distortion:	Less than 2.5%
Noise:	Less than 9mV
	(DC,AC VOL.MAX.)
Channel balance:	0±4dB

EXPLODED VIEW－1

REF.NO.	PART NO.	DESCRIPTION
A	87-264-505-319	V+1.4-2.5
B	87-357-529-319	Screw VT,+1.7-4
C	87-261-528-319	V+1.7-3.5 (B)
D	87-067-351-010	Cabinet screw M1.4 (B)
E	87-263-528-319	V+1.7-3.5
F	87-067-414-010	Special screw LINK M1.7

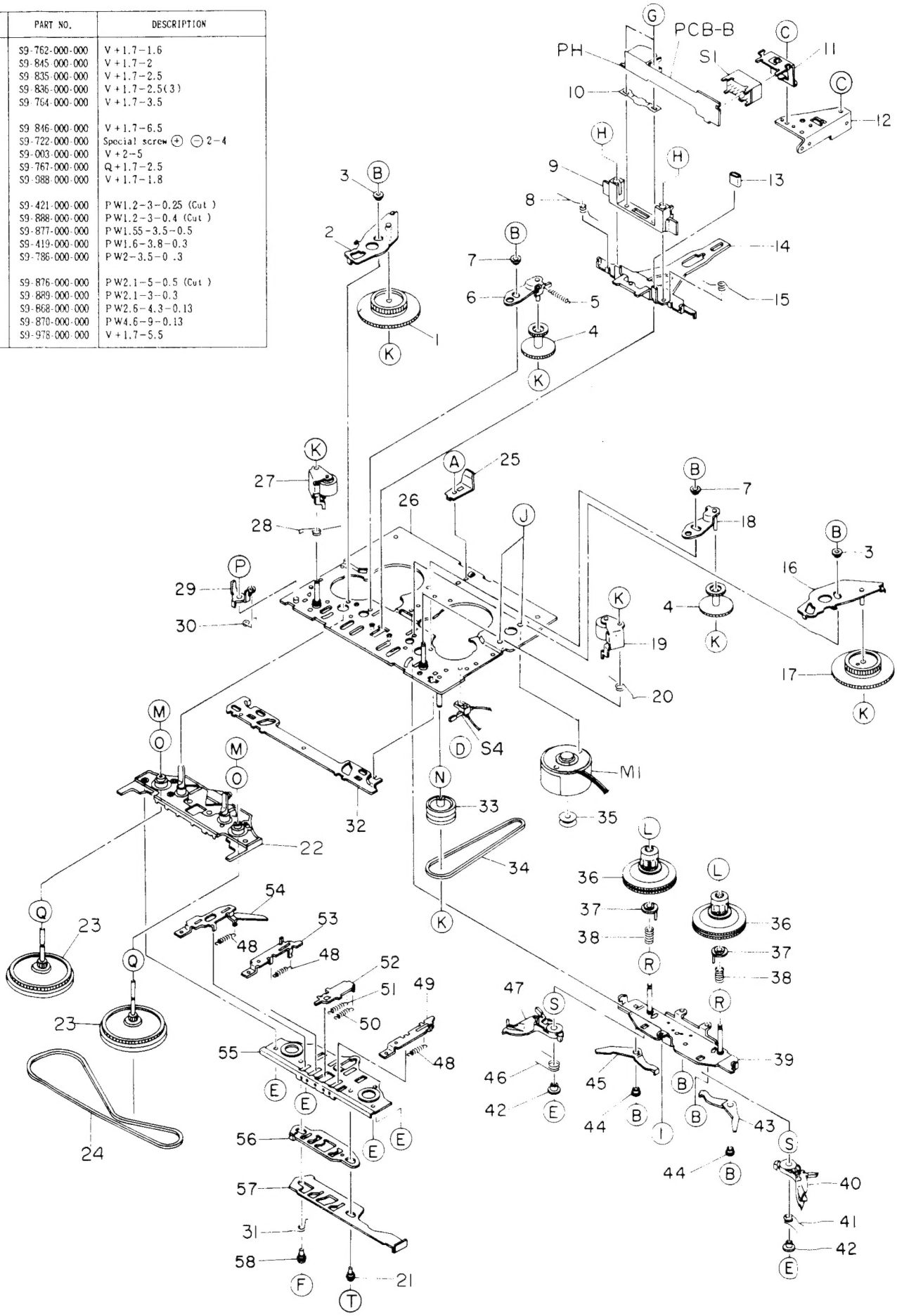


MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q, TY
	1-1	84-447-005-019		WINDOW,CASSETTE(HS-T36,T360)	*	1
	1-1	84-447-014-019		WINDOW,CASSETTE L(HS-T06MKII,T330)	*	1
	1-2	84-447-205-019		ADHESIVE,WINDOW	*	1
	1-3	84-447-002-019		LID,CASSETTE Y(B)	*	1
	1-3	84-447-035-019		LID,CASSETTE Y(S)	*	1
	1-3	84-447-036-019		LID,CASSETTE Y(WR)	*	1
	1-4	*84-447-201-010		HOLDER,CASSETTE	*	1
	1-5	*84-447-204-019		MYLAR,G-EQ(HS-T36,T360)	*	1
	1-6	*84-400-217-019		T-SPRING,CLICK	HS-T06	1
	1-7	*84-447-202-019		HOLDER,FRAME	*	1
	1-8	*84-447-210-010		BATTERY TERMINAL PL	*	1
	1-9	*84-400-216-119		BATTERY TERMINAL(-)	HS-T06	1
	1-10	*84-447-004-019		FRAME,CASSETTE(B)	*	1
	1-10	*84-447-037-019		FRAME,CASSETTE(S,WR)	*	1
	1-11	*84-400-204-110		P-SPRING,UP	HS-T06	1
	1-12	*84-447-012-019		PUSH-BUTTON,OPEN	*	1
	1-13	*84-447-206-019		LEVER,LOCK	*	1
	1-14	*84-447-011-019		PUSH-BUTTON,FWD	*	1
	1-15	*84-447-010-019		PUSH-BUTTON,REV	*	1
	1-16	*84-447-203-019		COLLAR,DIRECTION	*	1
	1-17	*84-447-009-019		PUSH-BUTTON,STOP	*	1
	1-18	*84-447-006-019		PUSH-BUTTON,PLAY	*	1
	1-19	*84-447-008-019		PUSH-BUTTON,REW	*	1
	1-20	*84-447-007-019		PUSH-BUTTON,FF	*	1
	1-21	---		HOLDER,ANT D		1
	1-22	*82-690-012-110		KNOB,VOLUME		1
	1-23	---		HOLDER,ANT C		1
	1-24	*84-400-206-019		PLATE,NUT	HS-T06	1
	1-25	*84-447-003-019		PANEL,CONTROL	*	1
	1-26	*84-447-016-010		NAME PLATE,CONTROL Y	*	1
	1-27	*84-447-015-010		NAME PLATE,SIDE Y	*	1
	1-28	84-447-013-019		KNOB,SLIDE A	*	3
	1-29	84-447-023-019		LID,BATTERY(B)	*	1
	1-29	84-447-024-019		LID,BATTERY(S)	*	1
	1-29	84-447-025-019		LID,BATTERY(WR)	*	1
	1-30	*84-447-001-019		CABINET,REAR(B)	*	1
	1-30	*84-447-027-019		CABINET,REAR(S)	*	1
	1-30	*84-447-028-019		CABINET,REAR(WR)	*	1
	1-31	---		LABEL,SPEC		1
	1-32	*84-447-017-019		PLATE,G-EQ Y(HS-T36)	*	1
	1-32	*84-447-022-019		PLATE,G-EQ YU(HS-T360)	*	1
	1-32	*84-447-020-019		PLATE,WINDOW(HS-T06MKII)	*	1
	1-32	*84-447-021-019		PLATE,WINDOW YU(HS-T330)	*	1
	1-33	*84-447-211-010		CUSHION,G-EQ(HS-T36,T360)	*	1
	1-34	*84-447-018-019		POINTER	*	1
	1-35	*84-400-017-019		KNOB,TU	HS-T06	1
	1-36	84-400-212-119		GEAR,PINION	HS-T06	1
	1-37	*84-447-207-019		FRAME,TU	*	1
	1-38	*82-690-237-019		G CUSHION 5-3-2		1
	1-39	---		PVC SHIELD SHEET		1
	1-40	84-400-211-019		GEAR,VC		1

EXPLODED VIEW—2

REF. NO.	PART NO.	DESCRIPTION
A	S9-762-000-000	V+1.7-1.6
B	S9-845-000-000	V+1.7-2
C	S9-835-000-000	V+1.7-2.5
D	S9-836-000-000	V+1.7-2.5(3)
E	S9-764-000-000	V+1.7-3.5
F	S9-846-000-000	V+1.7-6.5
G	S9-722-000-000	Special screw ⊕ ⊖ 2-4
H	S9-003-000-000	V+2-5
I	S9-767-000-000	Q+1.7-2.5
J	S9-988-000-000	V+1.7-1.8
K	S9-421-000-000	PW1.2-3-0.25 (Cut)
L	S9-888-000-000	PW1.2-3-0.4 (Cut)
M	S9-877-000-000	PW1.55-3.5-0.5
N	S9-419-000-000	PW1.6-3.8-0.3
O	S9-786-000-000	PW2-3.5-0.3
P	S9-876-000-000	PW2.1-5-0.5 (Cut)
Q	S9-889-000-000	PW2.1-3-0.3
R	S9-868-000-000	PW2.6-4.3-0.13
S	S9-870-000-000	PW4.6-9-0.13
T	S9-978-000-000	V+1.7-5.5



PART NO. CHANGED TO	REF. NO.	PART NO.	ORDER	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	S1-852-060-030		GEAR, T. CAM (R)		1
	2-2	S1-852-063-010		T. GEAR ARM R ASSY		1
	2-3	★S1-852-050-060		COLLAR, T. ARM		2
	2-4	S1-852-070-030		GEAR FF		2
	2-5	★S1-852-070-040		SPRING, FF GEAR ARM		1
	2-6	★S1-852-083-010		FF GEAR ARM R ASSY		1
	2-7	★S1-852-050-040		COLLAR, ARM		2
	2-8	★S1-852-040-050		SPRING, PINCH ROLLER R		1
	2-9	★S1-852-040-020		GUIDE, TAPE		1
	2-10	★S1-852-040-030		SPRING, HEAD PLATE		1
	2-11	---		BRACKET, SW		1
	2-12	---		BOARD, BRACKET		1
	2-13	---		UL TUBE		1
	2-14	★S1-852-040-010		PANEL, HEAD		1
	2-15	★S1-852-040-040		SPRING, PINCH ROLLER F		1
	2-16	★S1-852-053-010		T. GEAR ARM F ASSY		1
	2-17	S1-852-050-030		GEAR, T. CAM F		1
	2-18	★S1-852-073-010		FF GEAR ARM F ASSY		1
	2-19	S1-852-095-010		PINCH ROLLER ARM F ASSY		1
	2-20	★S1-852-050-050		SPRING, T. GEAR ARM F		1
	2-21	★S1-852-022-900		COLLAR, ACTUATING F		1
	2-22	★S1-852-022-000		BUTTON BASE ASSY		1
	2-23	★S1-852-125-010		FLYWHEEL ASSY		2
	2-24	S1-852-140-100		BELT (FL) A		1
	2-25	★S1-852-150-030		SPRING PLATE, PACK BEARING A		1
	2-26	---		CHASSIS ASSY		1
	2-27	S1-852-105-010		PINCH ROLLER ARM R ASSY		1
	2-28	★S1-852-060-020		SPRING, T. GEAR ARM R		1
	2-29	★S1-852-030-020		REVERSE ARM		1
	2-30	★S1-852-030-030		SPRING, REVERSE		1
	2-31	★S1-852-020-150		SPRING, ACTUATING PLATE		1
	2-32	★S1-852-030-010		PLATE, SLIDE		1
	2-33	S1-852-130-020		CENTER PULLEY A		1
	2-34	S1-852-140-050		BELT M		1
	2-35	S1-852-140-010		M PULLEY		1
	2-36	S1-852-114-030		REEL PLATFORM ASSY A		2
	2-37	★S1-852-110-270		DETECTION PLATE A		2
	2-38	★S1-852-110-290		SPRING, B. T. A		2
	2-39	★S1-852-113-060		REEL PLATE ASSY		1
	2-40	★S1-852-110-140		LEVER, AUTO F		1
	2-41	★S1-852-110-150		SPRING, AUTO LEVER F		1
	2-42	★S1-852-110-160		COLLAR, AUTO LEVER		2
	2-43	★S1-852-110-190		ARM, AUTO CONTROL F		1
	2-44	★S1-852-110-260		COLLAR, AUTO CONTROL		2
	2-45	★S1-852-110-210		ARM, AUTO CONTROL R		1
	2-46	★S1-852-110-180		SPRING, AUTO LEVER R		1
	2-47	★S1-852-110-170		LEVER, AUTO R		1
	2-48	★S1-852-020-120		SPRING, LEVER		3
	2-49	★S1-852-020-040		FF LEVER F		1
	2-50	★S1-852-020-140		SPRING, RC		1
	2-51	★S1-852-020-130		SPRING, HP		1
	2-52	★S1-852-020-030		PLATE, HP		1
	2-53	★S1-852-020-050		FF LEVER R		1
	2-54	★S1-852-020-060		LEVER, STOP		1
	2-55	★S1-852-020-070		HOLD PLATE		1
	2-56	★S1-852-020-170		LOCK ACTUATING PLATE		1
	2-57	★S1-852-020-090		ACTUATING PLATE, SWITCH		1
	2-58	★S1-852-020-100		COLLAR, ACTUATING PLATE		1

Note When placing an order for service parts, always enter the parts code number up to the last numeral on the service parts ordering sheet.